

ABSTRACT OF THE DISCLOSURE

A method for lightpath provisioning in a reconfigurable optical network that comprises the steps of naming each network addressable element in the reconfigurable optical network, determining current resources therein, determining current topology therein, requesting establishment of a lightpath, and allocating the lightpath. A system for lightpath provisioning in a reconfigurable optical network is also provided, comprising means for naming each network addressable element in the reconfigurable optical network, means for determining current topology in the reconfigurable optical network, means for determining current resources in the reconfigurable optical network, means for requesting establishment of a lightpath, means for allocating the lightpath and means for removing the lightpath upon completion.